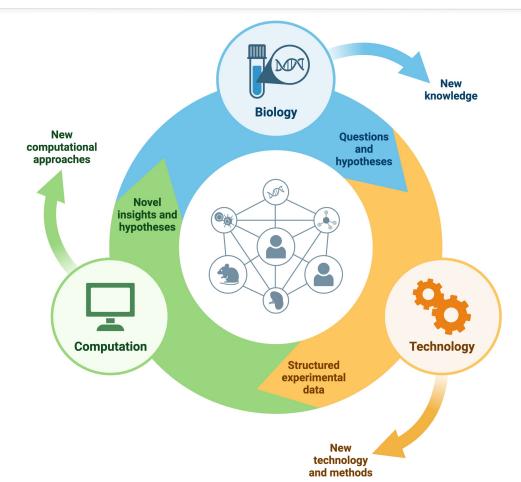




Using Single-cell Computation and Biology to Dissect Myeloid Cell States in Health and Disease

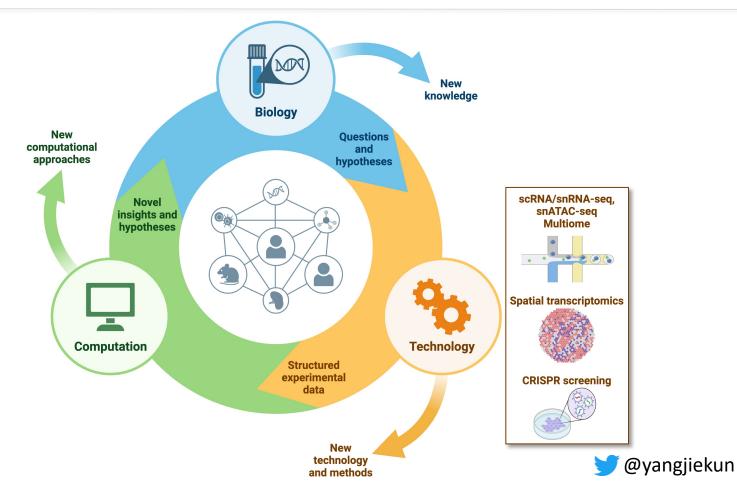
MBS orientation 2023.8.25



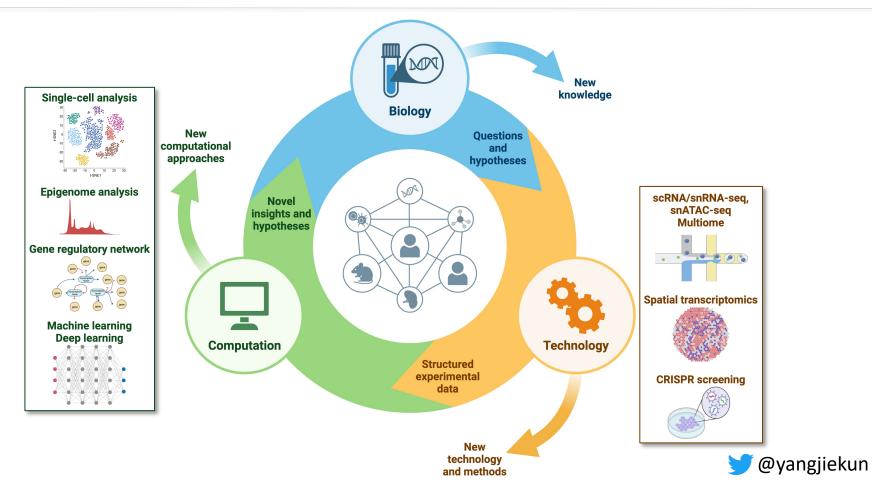




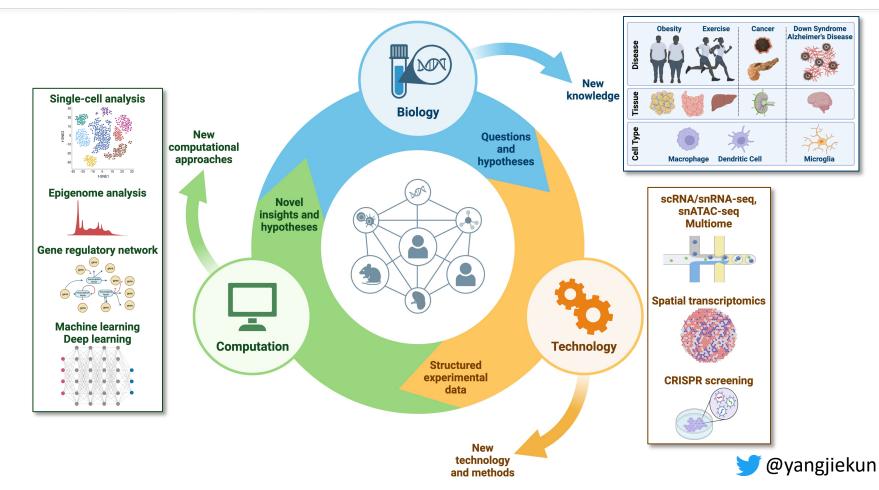








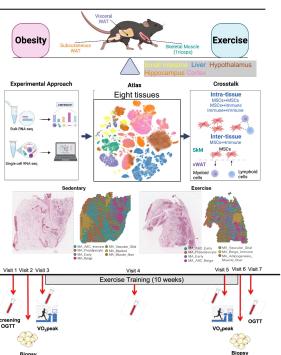




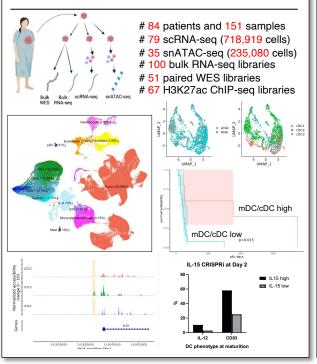


Ongoing and Future Projects

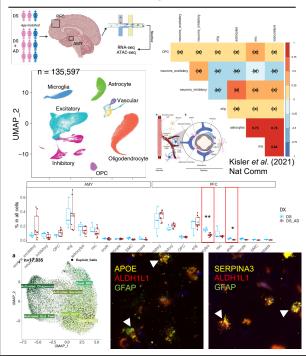
Multi-tissue single-cell dissection of the obesity-exercise axis in mouse & human



Understanding and epigenetic manipulation of dendritic cell state in the tumor microenvironment



Epigenomic & transcriptomic landscape of Alzheimer's Disease in Down Syndrome



Yang, et al. Nature (submitted)

Yang, et al. (in preparation) @yangjiekun



Collaborators and Mentees

Within Rutgers

Metabolism



Mike Verzi, Ph.D. Professor, Department of Genetics



Steven Malin, Ph.D Associate Professor, Department of Kinesiology and Health



Wenwei Hu, Ph.D. Professor, Department of Radiation Oncology, CINJ

Cancer



Zhongren (David) Zhou, M.D., Ph.D. Professor, RWJ Medical School

Down Syndrome



Peng Jiang, Ph.D. Assistant Professor, Department of Cell Biology and Neuroscience

Method/Assay Dev.



Biju Parekkadan, Ph.D. Associate Professor, Department of Biomedical Engineering

Past Mentees



Ruiwen (Doris) Fu MIT Master of Engineering 2022 Scientist @ Cellarity Boston Will apply for PhD this fall



Raina Thomas MIT CS & Biology undergrad 2023 Scientist @ Deepmind London Admitted to all the top comp bio PhD programs, e.g., Harvard BIG Won Merck Prize for her research

Current Mentees

Cassia Wang (MIT Master of Engineering, expected to graduate by Dec. 2023) Wendi Liu (Harvard Biotechnology Master, apply for PhD this fall) Anusha Puri (MIT BME undergrad, apply for PhD this fall) Lee Chen (MIT CS & Biology undergrad)

Join us!

Outside Rutgers



Postdoc Mentors

Professor, MIT Department of CS Head, MIT Comp. Biology group Broad Institute of MIT and Harvard



Associate Professor, Feinberg School of Medicine at Northwestern Harvard Medical School Robert Lurie Comprehensive Cancer Center

Obesity-Exercise Study Ioslin



Diabetes Maria Vamvini Pasquale Nigro Jan-Willem Middelbeek Michael Hirshman

Laurie J. Goodyear, Ph.D. Professor of Medicine Section Head and Senior Investigator Joslin Diabetes Center

Cancer Study



MGH Dennie Frederick Tatvana Sharova

Genevieve Boland, MD, Ph.D.



Dana-Farber Amy Huang Tyler Aprati



MDAnderson Cancer Center Making Cancer History

Sandeep Yadav Wentao Deng

Vice Chair of Research, Surgery Surgical Director, Termeer Center

David Liu, MD, MS, MPH Medical Oncologist Assistant Professor of Medicine, HMS

Kunal Rai, Ph.D. Associate Professor of Genomic Medicine MD Anderson Cancer Center

Machine Learning/Deep Learning Study



Eric Xing, Ph.D.

Professor of Computer Science, CMU

Caleb Ellington



Marcus Alvarez Sankha Das

Sierra Wright

Cherie Stringer



Tom Watkins

Paivi Pajukanta, MD, Ph.D. President at Mohamed bin Zayed U. of Al Department Vice Chair, Professor Human Genetics, UCLA

Kevin Litchfield, Ph.D. Group Leader, Tumor Immunogenomics and Immunosurveillance (TIGI) Lab. UCL

Down Syndrome-Alzheimer's Disease alana



Dong Shin Park Ada Yuan-Da Lin

Li-Huei Tsai, Ph.D.

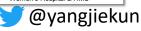
and Memory. Professor of Neuroscience Irvine

Leslie Vazquez-Rangel Lisi Flores-Aquilar Elizabeth Head, Ph.D. Director, Picower Institute for Learning Professor, University of California-

Immunology Study



Tanva Mavadas, Ph.D. Professor of Pathology, Brigham and Women's Hospital & HMS



Huan Wang

RUTGERS Mentoring Philosophy and Lab Environment

Mentoring extends beyond mere knowledge transfer. I champion:

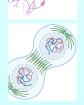
- **Intellectual Equality** Every question merits exploration; embrace the freedom to delve into science.
- **Shared Growth** We evolve through failures, transforming them into successes.
- **Collaborative Spirit** I neither compete with mentees over contributions nor foster competition within the team.
- Holistic Wellness Prioritizing mental and physical well-being over sheer productivity.
- **Transparency** Decisions and resources are communicated openly.

Our lab is a thriving hub of innovation, defined by:

- 1. Kindness Fostering a compassionate atmosphere.
- **Integrity** Upholding unwavering ethical standards.



- 3. Collaboration -Achieving excellence through teamwork.
- 4. Openness Welcoming diverse ideas and perspectives.







Contact us! E-mail us! Join us!

<u>jackie.yang@rutgers.edu; jkyang@mit.edu</u>.

The Yang Lab is actively seeking talented individuals for various positions! More details:

https://lnkd.in/eVN4eBDT

